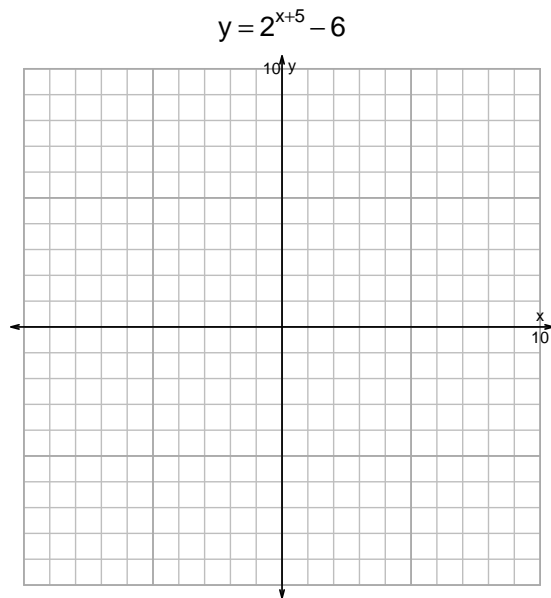
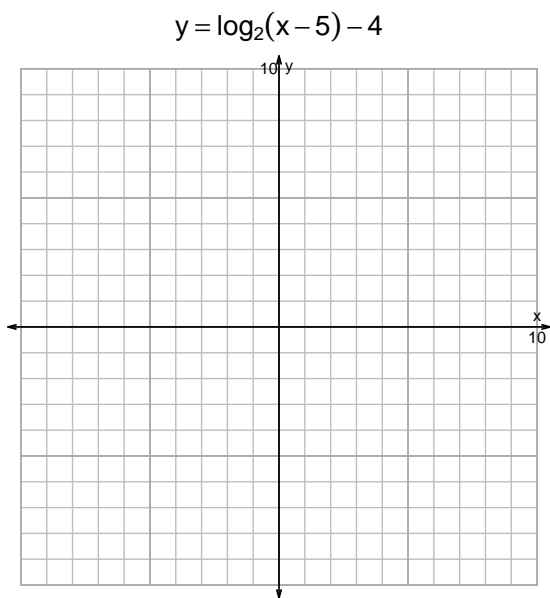


Name: _____

Date: _____

s18QUIZ: EXP LOG (QUIZ v276)

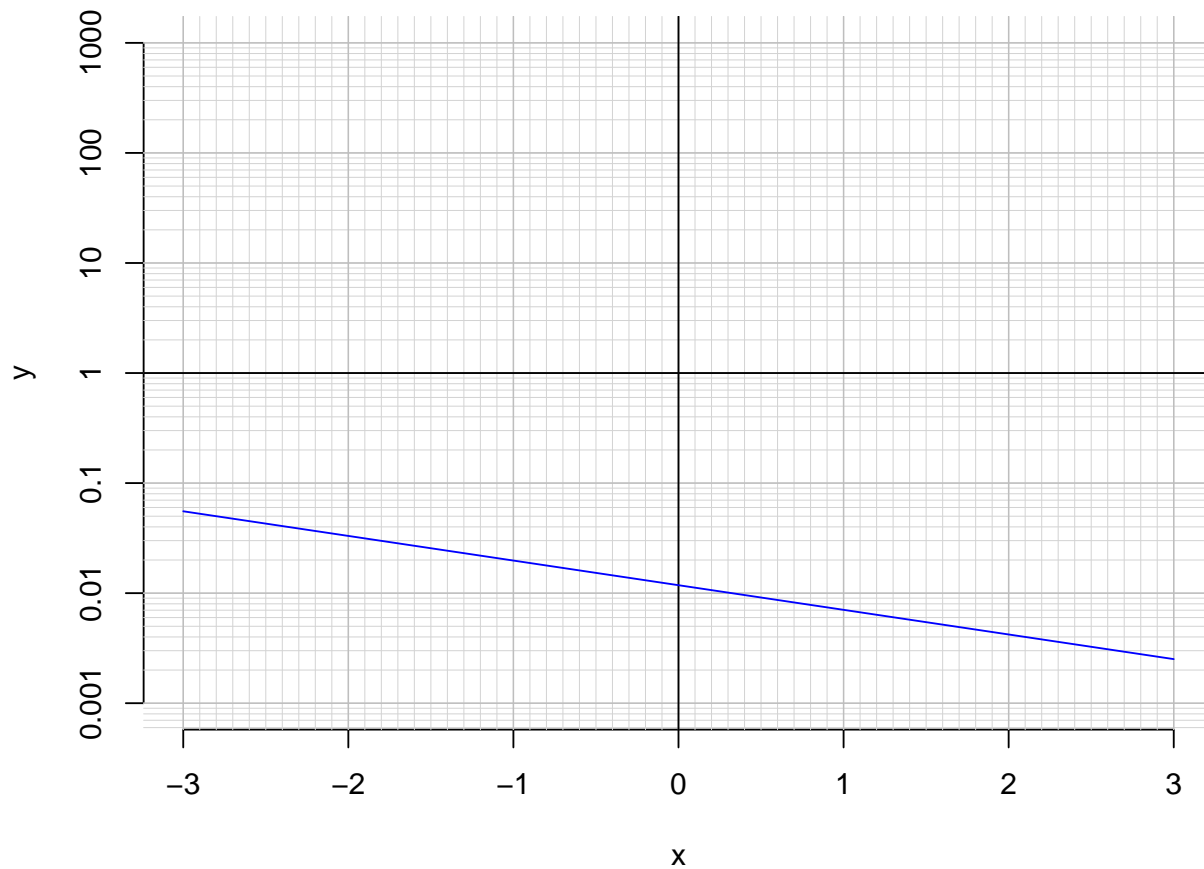
1. Graph $y = \log_2(x - 5) - 4$ and $y = 2^{x+5} - 6$ on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$13 = \left(\frac{7}{3}\right) \cdot 10^{-5t/4}$$

3. An exponential function $f(x) = 0.0118 \cdot e^{-0.515x}$ is graphed below on a semi-log plot.



- a. Using the plot above, evaluate $f(2.1)$.
- b. Express $f^{-1}(x)$, the inverse of f .
- c. Using the plot above, evaluate $f^{-1}(0.05)$.